Multiplying Decimals

Multiplying by 10, 100, and 1,000

—————————— CRITICAL THINKING AND PROBLEM SOLVING ——————————

25. Titan, one of Saturn's moons, has a diameter of $(5.15 \times 1{,}000)$ kilometers. Evaluate the expression to find Titan's diameter.

Titan's diameter is _____ kilometers.

26. The Gobi Desert in Central Asia is $(401.5 \times 1{,}000)$ square miles in area. Evaluate the expression to find the area.

The area of the Gobi Desert is _____ square miles.

27. The area of Hawaii, Hawaii is (40.37×100) square kilometers. Evaluate the expression to find Hawaii's area.

Hawaii has an area of _____ square kilometers.

28. Mt. McKinley, the highest mountain in the United States is $(20.32 \times 1{,}000)$ feet high. Evaluate the expression to find Mt. McKinley's height.

Mt. McKinley is _____ feet high.

29. The Nile River, the longest river in the world, is (66.7×100) kilometers long. Evaluate the expression to find the Nile's length.

The Nile River is _____ miles long.

30. Niagara Falls has a flow of about (58.3×100) cubic meters per second. Evaluate the expression to find the amount of water going over the falls.

Niagara Falls has an average flow of _____ cubic meters per second.

Choose the best estimate for each product.

31. 3.8×4.3

| 12 | 16 | 20 | 15 |

32. 2.1×8.9

| 16 | 19 | 18 | 10 |

33. 4.7×6

| 6 | 24 | 42 | 30 |

34. 0.98×6.1

| 5 | 6 | 7 | 8 |

35. 0.9×7.9

| 8 | 9 | 7 | 6 |

36. 6.8×8.9

| 48 | 56 | 63 | 54 |

37. 9.8×6.9

| 54 | 63 | 72 | 70 |

38. 7.8×11

| 88 | 77 | 80 | 71 |

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